

Amendments to the claims.

Complete listing of the claims

1. (Currently Amended) A nano-composite reinforced polymer including a polymer and one of carbon nano-tubes, a nano clay or nano-ceramic fibers formed into a ~~super~~ balloon for medical applications and having a high strength for resisting bursting during over inflation.

2. (Currently Amended) A nano-tube reinforced polymer including one of nylon or 12, or PET and carbon nano-tubes formed into a ~~super~~ balloon for medical applications and having a high strength for resisting bursting during over inflation.

3. (Original) A balloon catheter comprising a plastic tubing, a balloon fused to one end portion of said tubing, and said balloon being made of a carbon nano-tube reinforced polymer.

4. (Currently Amended) The balloon catheter of claim 4 3 wherein said balloon comprises between 99.75 and 90.00% by weight polymer and between 0.25 and 10 by weight carbon nano-tubes.

5. (Currently Amended) The balloon catheter of claim 5 4 wherein said balloon comprises approximately 3% by weight carbon nano-tubes.

6. (Currently Amended) The balloon catheter of claim 4 3 wherein said polymer is one of nylon 12 or PET.

7. (Original) A balloon catheter comprising a plastic tubing, a balloon fused to one end portion of said tubing, and said balloon being made of a nano-ceramic fiber reinforced polymer.

8. (Original) The balloon catheter of claim 7 wherein said balloon comprises between 99.75 and 90.00% by weight polymer and between 0.025 and 10.00% by weight nano-ceramic fibers.

9. (Original) The balloon catheter of claim 8 wherein said balloon comprises approximately 3% by weight nano-ceramic fibers.

10. (Original) The balloon catheter of claim 7 wherein said polymer is one of nylon 12 or PET.

11. (Original) The balloon catheter of claim 7 wherein said nano-ceramic fibers are alumina fibers.

12. (Original) A balloon catheter comprising a plastic tubing, a balloon fused to one end portion of said tubing, and said balloon being made of a nano-clay reinforced polymer.

13. (Original) The balloon catheter of claim 12 wherein said balloon comprises between 99.75 and 99.99% by weight polymer and between 0.01 and 0.25% by nano-clay.

14. (Original) The balloon catheter of claim 13 wherein said balloon comprises approximately 3% by weight nano-clay.

15. (Original) The balloon catheter of claim 12 wherein said polymer is one of nylon 12 or PET.